UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,223	02/17/2004	Lei Duan	080398.P276D	2362

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EXAMINER
SPOONER, LAMONT M

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE **3** MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *14 January 2008*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *9-13,22-26,35,39,41,47 and 48* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *9-13,22-26,35,39,41,47 and 48* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *17 February 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All   b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
   Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

Introduction

1.   This Office Action is in response to applicant's amendment filed

1/14/08. Claims 9-13, 22-26, 35, 39, 41, 47 and 48 are currently pending

and have been examined.

Response to Arguments

2.   Applicant's arguments filed 1/14/08 have been fully considered but

they are not persuasive. More specifically applicant argues, "However,

Chang does not teach or suggest that the connection codes are computer-

executable routines, much less that the connection codes are generated by

a grammar programming language compiler. In fact, Change contains no

disclosure directed toward a grammar programming language compiler."

Applicant further teaches, in the specification, p.13 lines 12-15, the GPL in

the form of standard computer programming language, such as **C, or Lisp**.

The Examiner notes, Chang explicitly teaches in C.7 lines 32-35,

executing Fig. 5 using C or Lisp (Fig 5-his computer-executable routine-

comprising the lexical functions, and grammar programming language-

comprised of his grammars, which define his valid phrase structures, see

Fig. 5 items 101-118, C.7 line 65-C.8 line 4-his stored pattern/grammar

structure).

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in

this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4.   Claims 9-13, 22-26, 35, 39, 41, 47 and 48 are rejected under 35

U.S.C. 102(b) as being anticipated by Chang et al. (Chang, US 5,268,840).

As per **claims 9, 22, 35, 41, and 47** Chang teaches a method for

providing segmentation of an input stream in a character-based language

comprising:

creating a plurality of segments from at least two tokens in the input

stream based upon a lexical information and lexical functions for the

character-based language (Fig 1 items 400-425, C.12 lines 1-25-his

knowledge information and code, as lexical information and functions, Fig.

9), the lexical functions comprising computer-executable routines

generated by a grammar programming language (C.7 lines 32-35-wherein

Fig 5-his computer-executable routine-comprising the lexical functions, and grammar programming language-comprised of his grammars, which define his valid phrase structures, see Fig. 5 items 101-118, C.7 line 65-C.8 line 4-his stored pattern/grammar structure); and

generating a connection graph using the plurality of segments (ibid-his connection graph).

As per **claims 10, 23, and 48** Chang teaches the method of claim 9, and further teaches compiling lexical grammar rules to generate the lexical functions, the lexical grammar programming language (ibid-his connection action codes).

As per **claims 11 and 24**, Chang teaches the method of claim 10 wherein the lexical grammar rules define connectivity relation of tokens (ibid-his connectivity, C.9 lines 40-48-his validity of connection, Fig. 9).

As per **claims 12 and 25**, Chang teaches the method of claim 9 further comprising assigning at least one part of speech tag to at least one segment using a lexical dictionary (ibid, Fig. 9, C.7 line 65, C.8 line 58-his part of speech for the segments).

As per **claims 13, 26, and 39**, Chang teaches the method of claim 12 further comprising:

defining a plurality of paths in the connection graph based upon part

of speech tags and the segments (ibid-his plurality of paths based on the

connection codes and part of speech, see claim 1);

assigning a cost to each of the plurality of paths (ibid, C.10 lines 3-67-

his test/code and failing and successful paths); and

determining at least one best path based upon a corresponding cost

to generate an output graph (C.12 lines 13-25).

Conclusion

5.   Applicant's amendment necessitated the new ground(s) of rejection

presented in this Office action. Accordingly, **THIS ACTION IS MADE**

FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of

time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to

expire THREE MONTHS from the mailing date of this action. In the event a

first reply is filed within TWO MONTHS of the mailing date of this final

action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory

period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the

mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final

action.

6.   Any inquiry concerning this communication or earlier communications

from the examiner should be directed to LAMONT M. SPOONER whose

telephone number is (571)272-7613. The examiner can normally be

reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Patrick Edouard can be reached on 571/272-7603.

The fax phone number for the organization where this application or

proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained

from the Patent Application Information Retrieval (PAIR) system. Status

information for published applications may be obtained from either Private

PAIR or Public PAIR. Status information for unpublished applications is

available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center

(EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

lms
5/13/08

/Patrick N. Edouard/
Supervisory Patent Examiner, Art Unit 2626